

LISTING OF THE CLAIMS

This listing reflects the pending claims, as no amendments are made herein:

1. (previously presented): A vaso-occlusive composition consisting of a vaso-occlusive coil; and
a bioactive material selected from the group consisting of fibrin; polyethylene glycol derivatives; thrombin-coated gelatin granules; balloons coated with iron microspheres; trace metals; thrombus-stabilizing molecules; and combinations thereof, wherein combinations of bioactive materials are not contained in separate layers.
- 2 to 4. (canceled).
5. (withdrawn): The composition of claim 1, wherein the material comprises a trace metal.
6. (withdrawn): The composition of claim 5, wherein the trace metal comprises copper.
7. (original): The composition of claim 1, wherein the material comprises a thrombus-stabilizing molecule.
8. (original): The composition of claim 7, wherein the thrombus-stabilizing molecule is Factor XIII or functional fragments thereof.
9. (original): The composition of claim 7, wherein the thrombus-stabilizing molecule is plasminogen activator inhibitor-1 (PAI-1) or functional fragments thereof.
10. (original): The composition of claim 7, wherein the thrombus-stabilizing molecule is α_2 -antiplasmin or functional fragments thereof.
11. (previously presented): The composition of claim 1, wherein the bioactive material is adsorbed to the vaso-occlusive coil.
- 12 to 13. (canceled)

14. (previously presented): The composition of claim 1, wherein the vaso-occlusive coil is plasma treated.

15. (previously presented): The composition of claim 1, wherein the vaso-occlusive coil is subjected to ion implantation.

16. (previously presented): The composition of claim 1, wherein the vaso-occlusive coil is microtextured.

17 to 18. (canceled).

19. (original): A method of occluding a vessel comprising administering to a subject in need thereof a vaso-occlusive composition according to claim 1.

20 to 21. (canceled).

22. (withdrawn): The method of claim 19, wherein the trace metal is copper.

23. (original): The method of claim 19, wherein the thrombus-stabilizing molecule is selected from the group consisting of Factor XIII, α_2 -antiplasmin, plasminogen activator inhibitor-1 (PAI-1), combinations thereof and functional fragments thereof.

24. (original): The method of claim 19, wherein the vessel is an aneurysm.

25 to 30. (canceled)

31. (withdrawn): A vaso-occlusive composition comprising a vaso-occlusive coil, a liquid embolic material and an additional bioactive material selected from the group consisting of DNA; RNA; functional fragments of DNA, RNA, or cytokines; and combinations thereof, wherein at least one of the bioactive materials is attached to the vaso-occlusive coil.

32. (withdrawn): The vaso-occlusive composition of claim 31, wherein the liquid embolic material is a particulate material selected from the group consisting of microspheres, granules and beads.

33. (canceled).

34. (withdrawn): The vaso-occlusive composition of claim 31, wherein the vaso-occlusive coil is absorbable.

35. (withdrawn): The vaso-occlusive composition of claim 32, wherein the particulate material is absorbable.

36. (withdrawn): A method of occluding a vessel comprising administering to a subject in need thereof a vaso-occlusive composition according to claim 31.

37. (withdrawn): A vaso-occlusive composition comprising
a vaso-occlusive member selected from the group consisting of one or more vaso-occlusive coils, one or more filters, one or more retention devices and combinations thereof; and thrombin-coated gelatin granules or balloons coated with iron microspheres.